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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/042,503	01/09/2002	Daniel S. Lowen	AUS920010643US1	6723
7590 07/27/2005			EXAMINER	
Frank C. Nicholas			LE, DIEU MINH T	
CARDINAL LA	AW GROUP	•		
Suite 2000			ART UNIT	PAPER NUMBER
1603 Orrington Avenue			2114	
Evanston, IL 60201			DATE MAILED: 07/27/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	10/042,503	LOWEN ET AL.			
omee Action Cummary	Examiner	Art Unit			
The MAILING DATE of this comm	Dieu-Minh Le	2114			
Period for Reply	unication appears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provisic after SIX (6) MONTHS from the mailing date of this coldinates of the period for reply specified above, the maximum of the No period for reply is specified above, the maximum of Failure to reply within the set or extended period for reply received by the Office later than three month the earned patent term adjustment. See 37 CFR 1.704(b).	NICATION. ons of 37 CFR 1.136(a). In no event, however, may mmunication. r (30) days, a reply within the statutory minimum of a statutory period will apply and will expire SIX (6) N ply will, by statute, cause the application to become is after the mailing date of this communication, even	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) f	îled on <i>04 May 2005</i> .				
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the prac	ctice under <i>Ex part</i> e <i>Quayle</i> , 1935 C	C.D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-18</u> is/are pending in the	e application.				
4a) Of the above claim(s) is	/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-18</u> is/are rejected.					
7) Claim(s) is/are objected to.	•				
8) Claim(s) are subject to rest	riction and/or election requirement.				
Application Papers					
9) The specification is objected to by	the Examiner.				
10)⊠ The drawing(s) filed on <u>09 January</u>	<u>∕ 2002</u> is/are: a)⊠ accepted or b)□	objected to by the Examiner.			
Applicant may not request that any ob	jection to the drawing(s) be held in abe	yance. See 37 CFR 1.85(a).			
		ing(s) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected	to by the Examiner. Note the attack	ned Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a clair	m for foreign priority under 35 U.S.C	c. § 119(a)-(d) or (f).			
a)□ All b)□ Some * c)□ None of:					
1. Certified copies of the priori	ty documents have been received.				
2. Certified copies of the priorit	ty documents have been received ir	Application No			
3. Copies of the certified copie	s of the priority documents have be	en received in this National Stage			
	tional Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office act	tion for a list of the certified copies n	ot received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Intervie	w Summary (PTO-413)			
2) D Notice of Draftsperson's Patent Drawing Review	(PTO-948) Paper N	lo(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date	or PTO/SB/08) 5) ☐ Notice of 6) ☐ Other: _	of Informal Patent Application (PTO-152)			
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Action Summary	Part of Paper No./Mail Date 20050721			

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1. This Office Action is response to the communication filed on 05/04/05 in application 10/042,503.

Claims 1-18 are presented for examination.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered

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therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (U.S. Patent 6,718,489 hereafter referred to as Lee).

As per claim 1:

Lee explicitly teach the invention. Lee teaches:

- A method of error retention for multi-threaded software, [abstract, col. 1, lines 53-57, col. 2, lines 3-4, col. 9, lines 3-17, and col. 12, lines 50-54] comprising:
- executing an application which uses a logger that collects log statement [col. 2, lines 11-12, col. 5, lines 58-59, col. 8, lines 40-43, and col.. 9, lines 12-17];
- collecting at least one log statement from at least one application thread and storing the at least one log

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statement in memory, and [col. 2, lines 11-12, col. 12, lines 55-56];

- allowing the collected log statement to be persisted in case on an error in a production environment [col. 1, lines 54-57, col. 7, lines 16-20].

Lee does not explicitly teach:

- a retention level indicator.

However, Lee does disclose capability of:

- An automatic fault management system of computer network [abstract, fig. 9, col. 1, lines 15-19] comprising:
- a connectivity among software fault detection, configuration database, monitoring unit, event log, etc... [fig. 9, col. 6, lines 38-64];
- log monitor thread used for monitoring the event log, system log for warning report (or indicator), event log monitored by ESR generator, event log ID monitoring, event log threshold monitoring [col. 5, lines 3-7, lines 58-59; col. 6, lines 58-64; col. 7, lines 55-65; col. 11, lines 46-65].

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Therefore, it would have been obvious to a person having ordinary skill in the art at the time of Applicant's invention was made to realize Lee's log monitor thread used for monitoring the event log, system log for warning report (or indicator), event log monitored by ESR generator, event log ID monitoring, event log threshold monitoring as being the retention level indicator as claimed by Applicant. This is because Lee explicitly deals with the software failure fault tolerant and management. Therefore, data collection, detection, and correction processes are clearly used and applied therein based on the event log and its threshold indication (i.e., retention level indicator). It is further obvious because Lee explicitly illustrate the retention level indicator via its "Event Log Monitor Thread" feature in supporting the software error detection and correction process. [col. 12, lines 49-62].

As per claim 2 :

Lee further teaches:

- the application and logger are implemented on a web application server [col. 2, lines 48-50].

As per claim 3:

Lee further teaches:

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- the executing application is run in a development environment [fig. 1A, col. 7, lines 38-47].

As per claim 4:

Lee further teaches:

- the executing application is run in a test environment [fig. 6, col. 13, lines 3-7].

As per claim 5:

Lee further teaches:

- the logger is built into a base class of an object oriented application framework (i.e., Electronic service Request (ESR) objects described in[fig. 9, col. 3, lines 27-31 and col. 5, lines 12-15].

As per claim 6:

Lee further teaches:

- the production application is an internet accessible application [col. 2, lines 48-50 and col. 3, line 39].

As per claim 7:

Lee further teaches:

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- the method can be implemented using background threads [col. 2, lines 3-4 and col. 12, lines 50-53].

As per claim 8:

Lee further teaches:

- detecting a death of an application thread by the logger [col. 4, lines 55-59 and col. 8, lines 46-50];
- deleting the application thread's log statements after thread death [col. 13, lines 3-7].

As per claims 9-10:

Due to the similarity of claims 9-10 to claims 1 and 8, except for a system of error retention for multi-threaded software comprising executing application means, collecting log statement means, allowing the collected log statement means, etc... instead method of error retention for multi-threaded software comprising executing application, collecting log statement, allowing the collected log statement, etc...; therefore, these claims are also rejected under the same rationale applied against claims 1 and 8. In addition, all of the limitations have been noted in the rejection as per claims 1 and 8.

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As per claims 11-18:

These claims are the same as per claims 1 - 8. The only minor different is that this claim is directed to computerreadable medium instead of method of error retention for multithreaded software comprising executing application, collecting
log statement, allowing the collected log statement as described
in claims 1-8. However, it would have been obvious to one having
ordinary skill in the art at the time the invention was made to
realize that a computer-readable medium is a necessary item for
such the storage device. Since the storage device obviously
needs a means for instruction or code means resided within the
computer program media for performing the data execution, data
logging, data access, etc... Therefore, these claims are also
rejected under the same rationale applied against claims 1-8.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. A shortened statutory period for response to this action is set to expired THREE (3) months, ZERO days from the date of this letter. Failure to respond within the period for response will cause the application to be abandoned. 35 U.S.C. 133.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dieu-Minh Le whose telephone number is (571) 272-3660. The examiner can

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normally be reached on Monday - Thursday from 8:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (571)272-3645. The Tech Center 2100 phone number is (571) 272-2100. The Central FAX number is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DIEU-MINH THAI LE
PRIMARY EXAMINER

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DML 7/19/05